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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7500

07/16/2008

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 WASHINGTON, DC 20036 EXAMINER

SOOHOO, TONY GLEN

ART UNIT PAPER NUMBER

1797

DATE MAILED: 07/16/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,042	06/23/2004	Syuushi Nomura	042449	5201

TITLE OF INVENTION: LIQUID PROCESSING DEVICE AND METHOD OF MANUFACTURING PROCESSED LIQUID

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	10/16/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further	correspondence including ed below or directed oth	ng the Patent, advance of	rders and notification of r	naintenance fees wil	ll be ma	ailed to the current	ould be completed where correspondence address as rate "FEE ADDRESS" for
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SOOHOO, T	ONY GLEN	1797	422-224000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be	3 registered patent vely, e firm (having as a ragent) and the names rneys or agents. If no	nember	a 2	
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assigned assignment. ' and STATE OR CC	OUNTR'	Y)	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Cor	poration	or other private gro	up entity 🖵 Government
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5. Change in Entity Sta	tus (from status indicateds SMALL ENTITY state		☐ b. Applicant is no lon	ger claiming SMALI	L ENTI	TY status. See 37 CF	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regist	ered att	orney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name			Registration No.				
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WESTERMAN,	HATTORI, DANIEI	SOOHOO, TONY GLEN				
	CUT AVENUE, NW	ART UNIT	PAPER NUMBER			
SUITE 700 WASHINGTON, I	SUITE 700 WASHINGTON, DC 20036			8		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 404 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 404 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

10/500.042	NOMURA ET AL.
Examiner	Art Unit
Tony G. Soohoo	1797
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	Tony G. Soohoo pears on the cover sheet wilder S (OR REMAINS) CLOSED in 5) or other appropriate common RIGHTS. This application is selected and MPEP 1308. d 4/9/2008. under 35 U.S.C. § 119(a)-(d) in the selected explication. To of this communication to file sheet in the submitted. Note the attached EXPRIVED in the submitted. The submitted explication is selected explication. The submitted explication is selected explication is selected explication. The submitted explication is selected explication is selected explication. The submitted explication is selected explication.

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Caridi on 30 June 2008.

The application has been amended as follows within the *substitute* specification filed 04/09/2008 (clean copy, now entered):

THE FOLLWING AS BEEN AMENDED BY AN EXAMINER'S AMENDMENT:

IN THE ABSTRACT

Replace the abstract filed 06/23/2004 with

-- The present invention also relates to a liquid processing device. The present invention includes hexagon nut shaped material pieces of stainless steel the like which are heat-treated and oriented such that the material pieces form up into a kind of concentric circles and made on a single plane, with drawing lines linking the center points of the hexagonal nut shaped material pieces positioned the outermost circumferentially periphery of the concentric arrangement forming up into an equilateral hexagon and such arrangement is retained. Also, a liquid processing device comprises a hollow container that the material pieces are positioned within. ---

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IN THE TITLE

The title has been changed to -- LIQUID PROCESSING DEVICE AND METHOD OF MANUFACTURING PROCESSED LIQUID—.

IN THE SPECIFICATION

On page 21, lines 10-12 delete the text in its entirety, in particular delete "(Application example 1) DELETED

(Application example 2) DELETED";

On page 21, line 14, change "example 3" to – example 1 --;

On page 22, line 16, change "example 4" to – example 2 --;

On page 24, line 8, change "example 5" to –example 3 --;

On page 25, line 14, change "example 6" to –example 4 --;

On page 26, line 5, delete the line the line in its entirety, in particular delete: "(Application example 7) DELETED".

The amendment was made in order to place the specification in better form for publication.

EXAMINER REMARKS / COMMENTS

- 2. The following is an examiner's REMARKS/COMMENTS:
 - a. The substitute specification filed 04/09/2008 is approved and has been entered along with the changes indicated in the Examiner's Amendment (above).

The claims filed 04/09/2008 has amended the invention "A liquid processing device".

The amended specification now characterizes the field of invention to a more precise embodiment, in particular, a liquid processing device. The specification points out a structural arrangement which processes a liquid flowed therethrough as the asserted utility, see the substitute specification page 13, lines 17 through page 15, line 2.

b. As a matter of Patent Office practice, a specification which contains a disclosure of utility which corresponds in scope to the subject matter sought to be patented must be taken as sufficient to satisfy the utility requirement of § 101 for the entire claimed subject matter unless there is a reason for one skilled in the art to question the objective truth of the statement of utility or its scope.

A specification disclosure which contains a teaching of the manner and process of making and using the invention in terms which correspond in scope to those used in describing and defining the subject matter sought to be patented must be taken as in compliance with the enabling requirement of the first paragraph of § 112 unless there is reason to doubt the objective truth of the statements contained therein which must be relied on for enabling support.

Sufficient evidence of utility of the processing of a liquid has been found by the examiner as supported in the specification filed 04/09/2008.

c. It is noted that the previous remaining outstanding issue, in the office mailed 01/09/2008, had raised an issue under 35 USC 101 as to the claims

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lacking a credible utility as a "field" converter for fluids. A rejection made under 35 USC 112, 1st paragraph was also made as to a lack of enablement of the operation of a field conversion as discussed in the original specification, (section FIELD OF INVENTION).

- d. Whereas the instant claims and specification are directed to a fluid processing device, 35 USC 101, and 35 USC 112, 1st paragraph issues to a "field" conversion of fluid has been rendered moot.
- e. The Applicant's own Declaration filed Under 37 CFR 1.132 on 04/09/2008 by NOMURA, and Declaration filed 02/27/2007; and the Declaration filed by WATARAI (on 4/9/2008); and the Declaration filed by kenei MAN (or aka kenei NAN on 04/09/2008); and the Declaration filed by Takao (on 02/27/2007), providing a statement attesting that the patents US 3747656, and/or US 3424437 and JP09010776 does not show or suggest the arrangement of the specification/application has been fully reviewed and noted. However, there is no outstanding rejection under those references. Additionally, there is no direct comparison of the prior art to that of the instant claims. As such, the statement to the showing or suggestion of the prior art to the application/specification as stated in the respective declarations are moot to the outstanding issues.
- f. Additionally, each of the above Declarations filed under 37 CFR 1.132 has submitted respectively authored papers for consideration. With regards, to applicant's own authored papers, there is a question doubt of self interest in the results of those papers. With regards to the papers of the other authors it is

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noted that there is no statement of independence, nor a statement of no vested interest with that of the applicant.

- g. Additionally, the issues of a "field" and its "conversion" has not been addressed in each of the papers. There is no measurement of any field nor a showing of field changes. Thus an asserted utility of a "field converter" has not been sufficiently rebutted. However, a review of the application as a whole, does suggest a utility of a device accepting liquid thereby processing liquids flowing therethrough the device. This utility is in accordance to, and corresponds in scope, to the subject matter of the apparatus claims presented for patent protection. The apparatus claims has been found as distinguishing over the prior art.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 4867233, US 3265128, US 2466684, US 2793835, US 7240723.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony G. Soohoo whose telephone number is (571) 272 1147. The examiner can normally be reached on 8AM-5PM, Mon-Thurs.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Sample can be reached on 571-272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tony G Soohoo/ Primary Examiner, Art Unit 1797 Tony G Soohoo Primary Examiner Art Unit 1797